CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

NEW RIVER @ THE INTERNATIONAL BOUNDARY - CALEXICO, CALIFORNIA
WATER ANALYSIS

Date Sampled: 9/29/98

Sampling Team: Liann Chavez and Dong Vu

Time	Temp[1] °C	pH[1]	Dissol.[1] Oxygen mg/l	Specific[1] Cond. µmhos/cm	Settleable Solids[1] - ml/l		
					10 min.	30 min.	60 min.
0700	24.0	7.4	0.9	4070	<0.1	0.1	0.1
0800	24.0	7.4	1.7	4090	<0.1	0.1	0.1
0900	23.9	7.4	1.1	4130	<0.1	0.1	0.1
1000	23.9	7.4	2.8	4200	0.25	0.3	0.3
1100	24.1	7.5	4.0	3960	0.4	0.4	0.4
1200	24.3	7.5	3.1	3940	<0.1	<0.1	<0.1
1300	24.6	7.5	3.5	3960	<0.1	<0.1	<0.1
1400	24.9	7.6	3.9	3970	0.2	0.2	-
Avg.[2]	24.2	7.5	2.6	4040	0.1	0.2	0.1
Avg.[3]	21.9	7.4	1.9	3765	0.1	0.2	0.2
Max.[4]	33.4	8.0	4.4	4780	1.1	1.1	1.1
Min.[4]	13.6	6.8	0.0	2920	<0.1	<0.1	<0.1

Observations:

0700 - Air temp is 22 °C. River color is dirty green. Fluffy solids present. Wind 2 mph SE.

0800 - Air temp is 23 °C. No other changes.

0900 - Less wind than before. No other changes.

1000 - Air temp is 27 °C. Wind 5 mph SE. No other changes. Dead dog was observed floating at 10:35.

1100 - Air temp is 29 °C. Wind gusts up to 15 mph.

1200 - Air temp is 31 °C. No other changes.

1300 - Air temp is 33 °C. No other changes. An overpowering septic odor came through; the water became darker, with floating scum and solids.

1400 - Air temp is 33 °C. Water is dark green, with fluffy solids. Wind gusts up to 15 mph SE.

[1] Data Collected in field; temp, pH, DO, and spec. cond. measured with multi-parameter hydrolab instrument.

[2] Average of above data

[3] Average of data for past 12 months

[4] Maximum and minimum values for the past 12 months.

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Date Sampled: 9/29/98

Sampling Team: Jose L. Angel and Kola Olatunbosun

Time	Temp[1] °C	pH[1]	Dissol.[1] Oxygen mg/l	Specific[1] Cond. µmhos/cm	Settleable Solids[1] - ml/l		
					10 min.	30 min.	60 min.
1500	25.3	7.6	3.9	3940	0.3	0.3	0.3
1600	25.5	7.6	3.8	3930	0.2	0.4	0.4
1700	25.5	7.6	2.8	3930	0.1	0.3	0.3
1800	25.5	7.6	2.0	3950	0.1	0.2	0.2
1900	25.3	7.5	1.4	3980	0.1	0.2	0.2
2000	24.9	7.5	1.3	4000	<0.1	0.1	0.1
2100	24.5	7.5	1.4	4040	<0.1	<0.1	<0.1
2200	24.1	7.4	1.2	4030	<0.1	0.1	0.1
Avg.[2]	25.1	7.5	2.2	3975	0.1	0.2	0.2

Observations:

1500 - Air temp is 32 °C. Windy. River color is dark green, no foam.
1600 - Air temp is 33 °C. Same as above, but dustier.
1700 - Air temp is 31 °C. River color is a little darker. It's still windy.
1800 - Air temp is 27 °C. Windy (5-8 mph SE). Small turtle was seen on the River's bank.
1900 - Air temp is 26 °C. Winds calmed down. Sun set at 18:45. Mild septic odor.
2000 - Air temp is 21 °C. No other changes.
2100 - Air temp is 21 °C. Slightly more windy, River color changed to dark green.
2200 - Air temp is 24 °C. No other changes.

[1] Data Collected in field; temp, pH, DO, and spec. cond. measured with multi-parameter hydrolab instrument.
[2] Average of above data

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Date Sampled: 9/29/98 - 9/30/98

Sampling Team: Orlando Gonzalez and Charles Springer

Time	Temp[1] °C	pH[1]	Dissol.[1] Oxygen mg/l	Specific[1] Cond. µmhos/cm	Settleable Solids[1] - ml/l		
					10 min.	30 min.	60 min.
2300	23.8	7.4	1.1	4030	<0.1	0.1	0.1
0000	23.5	7.4	1.3	4010	<0.1	0.1	0.2
0100	23.3	7.4	1.2	3950	<0.1	0.1	0.1
0200	23.2	7.4	1.1	3810	<0.1	0.1	0.1
0300	23.2	7.4	0.9	3800	0.1	0.1	0.2
0400	23.1	7.4	0.7	3780	<0.1	0.1	0.1
0500	22.9	7.4	0.9	3750	<0.1	0.1	0.2
0600	22.9	7.4	0.0	3730			
Avg.[2]	23.2	7.4	0.9	3858	0.0	0.1	0.1

Observations:

0700 - Air temp is 22 °C. Water color is dark pea green. More foam than before. No wind.
0000 - Air temp is 20 °C. Very small quantity of foam was floating on the River's surface. No other changes.
0100 - Air temp is 20 °C. Amount of foam has increased.
0200 - Air temp is 20 °C. Amount of foam has increased, Slight wind.
0300 - Air temp is 20 °C. Amount of foam has increased. No wind.
0400 - Air temp is 19 °C. River is gray/green. Slight wind.
0500 - Air temp is 19 °C. No wind.
0600 - Air temp is 19 °C.

[1] Data Collected in field; temp, pH, DO, and spec. cond. measured with multi-parameter hydrolab instrument.
[2] Average of above data

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WATER ANALYSIS

Date Sampled: 9/29-9/30/98

Laboratory: California Department of Health Services, Los Angeles, CA

Constituent	Storet Code	US EPA Method	Reporting Limits	Results[1] (8-hr Comp.)	Results[2] (24-hr Comp.)	Ave.[3]	Max.[3]	Min.[3]	Units
MBAS	38260	425.1	0.025	0.229	0.286	0.67	1.77	0.086	mg/l
Total Phosphate as P	665	365.2	0.01	1.86	1.72	1.76	2.48	1.1	mg/l
Phenol	32730	420.1	0.002	0.021	0.010	0.010	0.024	ND	mg/l
Cyanide	720	335.2	0.01	ND	ND	0.00	0.02	ND	mg/l
Ammonia - Nitrogen (NH_3-N)	610	350.2	0.05	3.9	4.5	5.0	6.8	2.9	mg/l
Nitrate - Nitrogen (NO_3-N)	610	353.2	0.2	ND	ND	0.3	1.3	ND	mg/l
Nitrite - Nitrogen (NO_2-N)	610	353.2	0.03	ND	0.04	0.04	0.1	ND	mg/l
Hardness (as $CaCO_3$)	900	130.2	1	700	710	771	935	670	mg/l
Total Alkalinity (as $CaCO_3$)	410	310.1	1	261	266	272	296	253	mg/l
Total Filter. Residue (TDS)	70300	160.1	10	2340	2330	2520	3160	2190	mg/l
Total Suspended Solids	530	160.2	10	14	86	57	99	14	mg/l
Turbidity	82079	180.1	0.1	10.7	11.1	13	21	7.4	NTU
BOD_5 @ 20^oC	310	410.4	2	12	8	18	28	8	mg/l
COD	340	405.1	5	55	53	39	66	20	mg/l

Constituent	Storet Code	Method	Reporting Limits		Results[1] (8-hr Comp.)	Results[2] (24-hr Comp.)	Ave.[3]	Max.[3]	Min.[3]	Units
			Graphite	Flame						
As-Arsenic	1002	A.A.	2	-	5	5	5	7	ND	µg/l
Cd-Cadmium	1027	A.A.	1	-	ND	ND	ND	ND	ND	µg/l
Cr-Chromium	1034	A.A.	10	-	ND	ND	ND	ND	ND	µg/l
Cu-Copper	1042	A.A.	10	-	ND	ND	ND	ND	ND	µg/l
Pb-Lead	1051	A.A.	10	-	ND	ND	ND	ND	ND	µg/l
Se-Selenium	1147	A.A.	5	-	ND	ND	ND	ND	ND	µg/l
Zn-Zinc	1092	EPA-212.3	-	50	ND	51	ND	ND	ND	µg/l
Hg-Mercury	71900	EPA-245.1	1	-	ND	ND	ND	ND	ND	µg/l

Laboratory: ATS Laboratories, Brawley, CA

Fecal Coliform[4,5]	Storet Code	Results	Median[2]	Max.[2]	Min.[2]	Units
1100 (9/29)	316315	230,000	265,000	1,700,000	20,000	MPN/100ml
1200	316315	140,000	265,000	800,000	20,000	MPN/100ml
1300	316315	170,000	230,000	500,000	20,000	MPN/100ml
1400	316315	40,000	230,000	16,000,000	20,000	MPN/100ml
0300 (9/30)	316315	5,000,000	-	-	-	MPN/100ml
0400	316315	2,200,000	-	-	-	MPN/100ml
0500	316315	1,300,000	-	-	-	MPN/100ml
0600	316315	800,000	-	-	-	MPN/100ml

[1] Resutls are from the 8-hr composite sample collected on 9/29/98 from 0700-1400.

[2] Resutls are from the 24-hr composite sample collected on 9/29-9/30/98 from 0700-0600, and are not included in any calculations.

[3] Ave, median, max, & min values for the past 12 months

[4] Grab sample taken at the indicated time

[5] Analyzed by the Multiple Tube Fermentation Method

ND = Not Detected

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WATER ANALYSIS

Date Sampled: 9/29-9/30/98

Laboratory: California Department of Health Services

Analyte[1]	Storet Code	9/29/98 0900[2]	9/29/98 1200[2]	9/29/98 1500[2]	9/29/98 1800[2]	9/29/98 2100[2]	9/30/98 0000[2]	9/30/98 0300[2]	9/30/98 0600[2]	Detection Limits	Units
Benzene	34030	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Bromobenzene	81555	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Bromochloromethane	A-012	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Bromodichloromethane	32101	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Bromoform	32104	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Bromomethane (Mehyl Bromide)	34413	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
n-Butylbenzene	A-010	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
sec-Butylbenzene	77350	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
tert-Butylbenzene	77353	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Carbon Tetrachloride	32102	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Chlorobenzene (Monochlorobenzene)	34301	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Chloroethane	34311	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Chloroform	32106	0.85	ND	ND	ND	ND	0.75	ND	0.51	0.5	µg/l
Chloromethane (Methyl Chloride)	34418	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
o-Chlorotoluene (2-Chlorotolulene)	A-008	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
p-Chlorotoluene (4-Chlorotolulene)	A-009	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Dibromochloromenhane	32105	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Dibromomethane	77596	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,2-Dichlorobenzene (o-DCB)	34536	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,3-Dichlorobenzene (m-DCB)	34566	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,4-Dichlorobenzene (p-DCB)	34571	0.68	0.59	ND	0.62	0.61	0.69	0.64	0.68	0.5	µg/l
Dichlorodifluoromethane (Freon 12)	34668	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l

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Analyte[1]	Storet Code	9/29/98 0900[2]	9/29/98 1200[2]	9/29/98 1500[2]	9/29/98 1800[2]	9/29/98 2100[2]	9/30/98 0000[2]	9/30/98 0300[2]	9/30/98 0600[2]	Detection Limits	Units
1,1-Dichloroethane (1,1-DCA)	34496	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,2-Dichloroethane (1,2-DCA)	34531	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,1-Dichloroethylene (1,1-DCE)	34501	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
cis-1,2-Dichloroethylene	77093	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
trans-1,2-Dichloroethylene	34546	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,2-Dichloropropane	34541	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,3-Dichloropropane	77173	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,2-Dichloropropane	77170	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,1-Dichloropropylene	77168	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
cis- & trans-1,3-Dichloropropylene	34561	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Ethyl benzene	34371	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Ethylene dibromide (EDB)	77651	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Hexachlorobutadiene	34391	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Isopropylbenzene (Cumeme 77356)	77223	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
p-Isopropyltoluene (p-Cymene)	A-011	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Methylene chloride (Dichloromethane)	34423	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Methyl Ethyl Ketone	81595	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Methyl Isobutyl Ketone	81596	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Methyl tert-Butyl Ether (MTBE)	A-030	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Napthalene	34696	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
n-Propylbenzene	77224	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Styrene	77128	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l

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Date Sampled: 9/29-9/30/98

Laboratory: California Department of Health Services

Analyte[1]	Storet Code	9/29/98 0900[2]	9/29/98 1200[2]	9/29/98 1500[2]	9/29/98 1800[2]	9/29/98 2100[2]	9/30/98 0000[2]	9/30/98 0300[2]	9/30/98 0600[2]	Detection Limits	Units
1,1,1,2-Tetrachloroethane	77562	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,1,2,2-Tetrachloroethane	34516	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Tetrachloroethylene (PCE)	34475	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Toluene	34010	0.58	ND	ND	ND	ND	1.8	ND	0.84	0.5	µg/l
1,2,3-Trichlorobenzene	77613	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,2,4-Trichlorobenzene	34551	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,1,1-Trichloroethane (1,1,1-TCA)	34506	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,1,2-Trichloroethane (1,1,2-TCA)	34511	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Trichloroethylene (TCE)	39180	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,2,3-Trichloropropane	77443	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Trichlorofluoromethane (Freon 11)	34488	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,2,4-Trimethylbenzene	77222	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,3,5-Trimethylbenzene	77226	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,1,2-Trichloro-trifluoroethane (Freon 113)	81611	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Vinyl chloride (VC)	39175	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
m,p-Xylenes	A-014	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
o-Xylene	77135	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l

ND = Not Detected

[1] USEPA Method 524.2

[2] Results are for each grab sample collected at the specified time/date, the first sample was collected @ 0900 on 9/29/98. The last was collected @ 0600 on 9/30/98.